

CLAIM LISTING

This listing of claims will replace all prior versions and listings of claims in the instant application:

1. (Currently Amended) A method of processing a request for a plurality of Web services comprising the steps of:

storing, in a cache, a pattern object from a request for Web services and a list of watchers that invoked Web services responsive to detecting the pattern object;

receiving a new request for Web services specifying a new pattern object and extracting the new pattern object from the request and storing the new pattern object in common memory prior;

determining whether the new pattern object matches the cached pattern object, wherein the determining is performed after extracting the new pattern object;

if so, causing each watcher in the list of watchers to invoke an associated Web service; and

if not, causing each watcher in a system to analyze the new pattern object, such that any watcher determining that the new pattern object matches a provisioned rule invokes an associated Web service;

wherein each watcher is associated with a Web service and specifies a rule for invoking an associated one of the Web services;

wherein each watcher analyzes the pattern object in parallel such that more than one Web service can be invoked concurrently.

2.-7. (Cancelled)

8. (Currently Amended) A method of processing a request for a plurality of Web services comprising the steps of:

receiving a request specifying at least two Web services;

storing a pattern object from the request in a common memory;

scanning the common memory with a plurality of watchers, wherein each watcher is associated with a Web service and specifies a rule for invoking an associated one of the Web services;

determining that the pattern object matches a rule of at least two of the watchers, such that each watcher having a rule matching the pattern object invokes an associated one of the Web services; [[and]]

storing a list of watchers that invoke an associated one of the Web services and the pattern object in a cache, wherein the list of watchers is associated with the pattern object; and

storing in the cache the new pattern object and a list of watchers that invoked Web services responsive to detecting the new pattern object.

9.-10. (Cancelled)

11. (Currently Amended) A system for processing complex requests for Web services comprising:

a Hypertext Transfer Protocol server configured to receive a single request for more than one Web service;

at least one servlet configured to extract a pattern object from the request and to format a response to the request;

a common memory that temporarily stores the pattern object while the Web services specified by the pattern object execute;

a plurality of watchers, each watcher being associated with a particular Web service and including a rule for invoking the associated Web service, wherein each of said watchers scans said common memory in parallel to determine whether a stored pattern object matches a rule for invoking an associated one of the Web services;

a termination watcher configured to detect termination criterion, wherein the termination watcher provides the pattern object back to one of said plurality of servlets to generate a response upon detecting the termination criterion; [[and]]

a cache for storing pattern objects from requests and lists of watchers that invoked Web services responsive to detecting the pattern objects from the past requests; and

cache logic for comparing pattern objects from received requests with cached pattern objects, said cache logic causing each watcher in a list of watchers associated with a cached pattern object that matches the pattern object from a received request to invoke an associated Web service;

wherein said watchers scan said common memory in parallel such that more than one Web service can execute concurrently, wherein said watchers invoke more than one Web service sequentially, and wherein said watchers are further configured to modify the pattern object according to instructions provided from an associated one of the Web services.

12.-26. (Cancelled)